STIC-ILL

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Wilder, Cynthia Monday, October 02, 2000 4:44 PM

Reference request

Please provide the following references:

Euro J. Biochem (1982): 123 (1), 141-152

Journal of Microbiology (1990): 28 (3) 497-503

European Journal of Biochem (1978): 86 (2) 531-537

Journal of Infection (1993) 27/2 151-155

Asia-Oceania Journal of Obstertrics and Gynaecology (1992) 18 (4) 371-377

Journal of Acquired Immune Deficiency syndromes and human retrovirology (1996): 13 (4) 314-319

Internationa Journal of Epidemiology (1992): 21 (5) 989-994

Blood (1996) 88 (8) 3004-3009

Journal of Pediatrics (1995) 127 (6) 924-928.

Thank you!!

Cynthia B. Wilder, Ph.D Art Unit 1655 Room 12D03 (703) 305-1680

Scientific and Technical Information Center

807969

L11 ANSWER 1 OF 9 MEDLINE 2000169430 ACCESSION NUMBER:

Transmission of human T-cell lymphotropic virus type 1 DOCUMENT NUMBER: TITLE:

tax to rabbits by tax-only-positive human

MEDLINE

cells.

Zucker-Franklin D; Pancake B A; AUTHOR:

New York University School of Medicine, New York, New York CORPOPATE SOURCE:

CLINICAL AND DIAGNOSTIC LABORATORY IMMUNOLOGY, (2000 Mar) SOURCE:

(2) 274-8.

Journal code: CB7. ISSN: 1071-412X.

United States PUB. COUNTRY:

Journal; Article; (JOURNAL ARTICLE)

English LANGUAGE:

Priority Journals FILE SEGMENT:

200007 ENTRY MONTH:

The human T-cell lymphrotropic virus type 1 (HTLV-1) is causally ENTRY WEEK:

related to adult T-cell leukemia and lymphoma and the neurodegenerative diseases tropical spastic paraparesis and HTLV-i-associated

myelopathy. In the United States the prevalence of infection has been estimated to range from 0.016 to 0.1% on the basis of serologic tests for antibodies to the viral structural proteins. Blood from donors positive

for antibodies to HTLV-1 or HTLV-2 is not used for

transfusion. However, patients with the cutaneous T-cell lymphoma

mycosis fungoides (MF) are HTLV-1 and -2

seronegative yet harbor proviral sequences identical

to those that encode the HTLV-1 transactivating and transforming

gene product p40tax in their peripheral blood mononuclear cells (PBMCs), and they usually have antibodies to r40(tax). Moreover, a study

of 250 randomly selected blood donors revealed that approximately 8% of

these seronegative individuals also had HTLV-1 tax

sequences and antibodies to p40 (tax), while they lacked

sequences and antibodies related to gag, pol, or env. Thus, it seemed

important to determine whether the "tax-only" state can be

transmitted by transfusion. To this end, PBMCs from HTLV-1 and

-2 seronegative tax-only-positive MF patients or from healthy

tax-only-positive blood donors were injected into adult rabbits, an established animal model for HTLV-1 infection. The PBMCs of

all injected rabbits became ${\sf tax}$ sequence positive. These

cbservations suggest that HTLV-1 tax can be

transmitted by tax-only-positive mononuclear cells.

L11 ANSWER 2 OF 9 MEDLINE

MEDLINE 97322385 ACCESSION NUMBER:

Reexamination of human T cell lymphotropic virus (DOCUMENT NUMBER: TITLE:

HTLV-I/II) prevalence.

Zucker-Franklin D; Pancake B A; Marmor AUTHOR:

Department of Medicine, New York University Medical COFPORATE SOURCE:

Center,

550 First Avenue, New York, NY 10016, USA.

F:01-CA58519 (NCI) CONTFACT NUMBER:

DAC6001 (NIDA)

1P30AI27742 (NIAID)

PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE

UNITED STATES OF AMERICA, (1997 Jun 10) 94 (12) 6403-7.

Journal code: PV3. ISSN: 0027-8424.

United States PUB. COUNTRY:

Journal; Article; (JOURNAL ARTICLE)

English LANGUAGE:

FILE SEGMENT:

SOURCE:

Priority Journals; Cancer Journals

199709 ENTRY MONTH:

In the United States, blood donors are being screened for infection with ENTRY WEEK:

human T cell lymphotropic viruses I and II (HTLV-I/II) by

serologic means, which detect antibodies to the structural proteins of

these viruses. Because patients with mycosis fungoides

(MF) usually do not have such antibodies even though their cells harbor

HTLV-I Tax and/or pol proviral

sequences, it was questioned whether the prevalence of

HTLV infection among healthy blood donors may also be

underestimated by current means of testing. To examine this possibility,

study on specimens of relatives of mycosis fungoides

patients (MFR) was begun. In addition, to collect data more expeditiously,

a cohort of former injection drug users (IDUs) was tested by routine serologic methods, as well as by PCR/Southern blot analysis for

Tax, pol, and gag proviral sequences and Western blot analysis for antibodies to the Tax gene product. To date, 6/8 MFRs and 42/81 (51.8%) of HIV-negative IDUs proved to be positive for HTLV, whereas routine serology identified none of the MFR and only 18/81 (22.2%) of the IDUs. Among the latter test subjects, the incidence of HTLV-I also proved to be 10 times higher than expected. Therefore, it is likely that among healthy blood denors infection with HTLV-I/II is more prevalent than is currently assumed. Since Tax is the transforming sequence of HTLV-I/II, testing for Tax sequences and antibodies to its gene product may be desirable in blood transfusion and tissue donor

L11 ANSWER 3 OF 9 MEDLINE

facilities.

MEDLINE 97114633 ACCESSION NUMBER:

Determination of the true prevalence of infection with the DOCUMENT NUMBER: human T-cell lymphotropic viruses (HTLV-I/II) may TITLE:

require a combination of biomolecular and serological

analyses.

Pancake B A; Zucker-Franklin D; Marmor AUTHOR:

M; Legler P M

Department of Medicine, New York University Medical CORPORATE SOURCE:

Center,

NY 10016, USA.

RO1-CA58519 (NCI) CONTRACT NUMBER:

DA06001 (NIDA) IP30A127742

PROCEEDINGS OF THE ASSOCIATION OF AMERICAN PHYSICIANS, SOURCE:

(1996 Nov) 108 (6) 444-8.

Journal code: CDQ. ISSN: 1081-650X.

United States PUB. COUNTRY:

Journal; Article; (JOURNAL ARTICLE)

English LANGUAGE:

Priority Journals FILE SEGMENT:

Infection with the human T-cell lymphotropic virus types I and II (ENTRY MONTH:

HTLV-I/II) usually is determined by tests that detect antibodies

to the viral structural proteins. However, recent studies revealed that patients with mycosis fungoides have proviral DNA

sequences related to the **HTLV** transactivating-transforming gene tax, without having antibodies to the virus. These results raised the possibility that the prevalence of HTLV infection in the general population of the United States also may be underestimated. To reassess the prevalence of HTLV-I/II infection effectively, a population at increased risk for infection (i.e., a cohort of injection drug users [IDUs]) was studied. Paired sera and peripheral blood mononuclear cells (PBMCs) from 81 IDUs were subjected to testing by Western blot analysis for antibodies to the viral structural proteins gag and env and by polymerase chain reaction (PCR) Southern analysis to detect

gag, pol and tax proviral DNA sequences. Western blot assays showed 1 of 81 IDUs to be positive for HTLV-I, 14 to be positive for antibodies to $\mathtt{HTLV} ext{-}\mathrm{II}$, and 3 to be $\mathtt{HTLV} ext{-}\mathrm{serotype}$ indeterminate. When whole-cell lysates of PBMCs from these individuals were subjected to PCR and Southern analysis. 39 of 81 were found to have HTLV-related sequences. A total of nine IDUs were found to be infected with HTLV-I, a figure nearly 10 times higher than that estimated by serology alone. Bio-molecular analysis showed HTLV -II-specific proviral sequences in 21 IDUs. Three individuals were seropositive for HTLV-II but lacked PCR evidence of gag, pol and tax sequences. Thus, the overall prevalence of HTLV infection among this cohort was 59% (43 of 81) (i.e., more than twice the frequency predicted by serology, 18 of 81 or 22%). These results indicate that it may be necessary to incorporate biomolecular as well as serological methodologies to identify all persons infected with these retroviruses.

L11 ANSWER 4 OF 9 MEDLINE ACCESSION NUMBER: 97104210

97104210

DOCUMENT NUMBER: The difficulty of detecting HTLV-1 TITLE:

proviral sequences in patients with

MEDLINE

mycosis fungoides.

Pancake B A; Zucker-Franklin D

Department of Medicine, New York University Medical AUTHOR: CORPORATE SOURCE:

Center,

New York 10016, USA.

RO1-CA-58519 (NCI)

JOURNAL OF ACQUIRED IMMUNE DEFICIENCY SYNDROMES AND HUMAN CONTRACT NUMBER: SOURCE:

RETROVIROLOGY, (1996 Dec 1) 13 (4) 314-9.

Journal code: B7J. ISSN: 1077-9450.

United States PUB. COUNTRY:

Journal; Article; (JOURNAL ARTICLE)

English LANGUAGE:

Priority Journals FILE SEGMENT:

199702 ENTRY MONTH: ENTRY WEEK:

Although most patients with cutaneous T cell lymphomas, including mycosis fungoides (MF) and its leukemic variant, the Sezary syndrome, are seronegative for antibodies to the human T cell lymphotropic viruses (HTLV- $\tilde{1}/II$), it has recently been shown that > 95% of such patients harbor proviral DNA sequences related to the region of the HTLV genome that encodes the transregulatory/transforming gene, tax. However, the demonstration of $\ensuremath{\mathsf{HTLV}}$ sequences, even after amplification by polymerase chain reaction (PCR), has not been universally successful, and some investigators continue to question this observation. In an effort to resolve this controversy, we have compared published methodologies that

have been less successful with techniques currently used in this laboratory. Major differences were found in (a) the nature of the cells used [freshly isolated versus cultured peripheral blood mononuclear cells (PBMC)] and (b) the methods used to prepare samples for PCR (whole cell lysates versus DNA extracts). PBMC from 10 different MF patients and the healthy daughter of 1 of the patients were subjected to comparative analyses. While all of the PBMC lysates were positive, the DNA extract

from only one of these individuals revealed $\ensuremath{\mathbf{HTLV}}$ $\ensuremath{\mathbf{tax}}$ sequences. Studies were also conducted comparing cell lysates and DNA extracts of cultured cells derived from tax sequence-positive PBMC from seven different MF patients. The cells from four of the seven were shown to have retained tax sequences after varying times in culture, when whole-cell lysates were used as targets for PCR amplification and Southern analysis, whereas none of the DNA extracts

positive. It appears that the use of whole-cell lysates instead of DNA extracts and the use of fresh instead of cultured cells greatly ennance the ability to detect **HTLV-1** tax sequences in specimens from MF patients.

L11 ANSWER 5 OF 9 MEDLINE

MEDLINE ACCESSION NUMBER: 97028183

Demonstration of antibodies to human T-cell lymphotropic 97028183 DOCUMENT NUMBER: TITLE:

virus-I tax in patients with the cutaneous T-cell

lymphoma, mycosis fungoides, who are

seronegative for antibodies to the structural proteins of

the virus.

Pancake B A; Wassef E H; Zucker-Franklin AUTHOR:

Department of Medicine, New York University Medical CORPORATE SOURCE:

Center,

were

New York 10016, USA.

CA58519 (NCI) CONTRACT NUMBER:

AI07382

BLOOD, (1996 Oct 15) 88 (8) 3004-9. SOURCE:

Journal code: A8G. ISSN: 0006-4971.

United States PUB. COUNTRY:

Journal; Article; (JOURNAL ARTICLE)

Abridged Index Medicus Journals; Priority Journals; Cancer LANGUAGE: FILE SEGMENT:

Journals

Although most patients with the cutaneous T-cell lymphoma, mycosis ENTRY MONTH: fungoides (MF), are seronegative for human T-cell lymphotropic virus-I or -II (HTLV-I/II) when tested by assays that measure

only antibodies to the viral structural proteins, the majority of such

patients harbor HTLV-I-related pol and tax

proviral sequences that encode proteins not included in routinely used serologic tests. Tax mRNA has also been detected

in their peripheral blood mononuclear cells (PBMC). Therefore, it seemed possible that these patients have antibodies to the tax protein.

To investigate this, enzyme-linked immunosorbent assays (ELI-SAs) and Western blot assays were set up, using as antigens the full-length

HTLV-I tax cloned from the prototypic HTLV

-I-infected cell line, C91FL, and from PBMC of a MF patient, as well as a synthetic peptide made to the carboxy-terminal 20 amino acids of

tax-I. Of 60 MF patients whose PBMC were shown to be positive for

tax proviral DNA and mRNA, 50 (83%) were shown to have tax

antibodies. The antigen derived from the MF patient was most useful in detecting such antibodies. These results demonstrate the need for including other $\mathtt{HTLV} ext{-}\mathrm{related}$ antigens in addition to gag and env

in serologic tests used to identify HTLV-infected individuals. The findings underscore the fact that individuals considered seronegative on the basis of currently used tests can be infected with HTLV.

L11 ANSWER 6 OF 9 MEDLINE

MEDLINE 96183546 ACCESSION NUMBER:

DOCUMENT NUMBER:

TITLE:

Localization of human T-cell lymphotropic virus-1

tax proviral sequences in skin

biopsies of patients with mycosis

fungoides by in situ polymerase chain reaction.

AUTHOR: Khan Z M; Sebenik M; Zucker-Franklin D

COMPORATE SOURCE: Department of Medicine, New York University Medical

Center,

New York, USA.

CONTRACT NUMBER: FO1-CA58519 (NCI)

SOURCE: JOURNAL OF INVESTIGATIVE DEFMATOLOGY, (1996 Apr.) 106 (4)

667-72.

Journal code: IHZ. ISSN: 0002-202X.

PUB. COUNTRY: United States

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Friority Journals; Cancer Journals

ENTRY MONTH: 199608

AB The histopathologic diagnosis of mycosis fungoides

(MF), even when clinical manifestations of the disease seem convincing,

is

often tenuous. The observation that practically all patients with MF harbor human T cell lymphotropic virus type I (HTLV-I) proviral sequences in their circulating lymphocytes raised the possibility that such viral footprints could be detected in

their cutaneous infiltrates. Application of in situ polymerase chain reaction (PCR) to skin biopsies of 11 of 12 patients demonstrated this assumption to be correct. In addition, cells suspected to be

keratinocytes

were also positive. None of 10 skin biopsies from a variety of sources used as controls, nor 3 lymph node biopsies from patients with B-cell lymphomas, showed any HTLV proviral sequences

on in situ PCR. On the basis of these observations, it is concluded that in situ PCR carried out on skin biopsies of patients with presumptive MF may help to established the diagnosis.

L11 ANSWER 7 OF 9 MEDLINE

ACCESSION NUMBER: 95164683 MEDLINE

DOCUMENT NUMBER: 95164683

TITLE: The cutaneous T cell lymphoma, mycosis

fungoides, is a human T cell lymphotropic

virus-associated disease. A study of 50 patients.

AUTHOR: Pancake B A; Zucker-Franklin D;

Coutavas E E

CORFORATE SOURCE: Department of Medicine, New York University Medical

Center,

New York 10016..

CONTRACT NUMBER: DK-12274 (NIDDK)
HL-40103 (NHLBI)

HL-42103 (NHLBI) AI07382 (NIAID)

SOURCE: JOURNAL OF CLINICAL INVESTIGATION, (1995 Feb) 95 (2)

547-54.

Journal code: HS7. ISSN: 0021-9738.

PUB. COUNTRY:

United States (CLINICAL TRIAL)

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals; Cancer

Journals

ENTRY MONTH: 199505

AB For nearly two decades it has been suspected that the cutaneous T cell lymphoma, mycosis fungoides (MF), and its leukemic

variant, the Sezary syndrome, are caused by the human T lymphotropic

virus

(HTLV-I/II). Arguments against this concept included the finding

that only a small number of MF patients have antibodies to HTLV -I/II and that attempts to detect proviral sequences

by mere Southern hybridization of extracted DNA usually met with failure. However, we have reported repeatedly that HTLV-like particles

emerge in blood mononuclear cell (PBMC) cultures of practically all patients with this disease. In several instances, the particles were

identified as HTLV by immunoelectron microscopy as well as biomolecular analysis. With the assumptions that the virus in MF patients may have become detection by Southern hybridization alone, the extracts

of

freshly isolated PBMC of 50 consecutive patients were subjected to combined PCR/Southern analysis. Here we report the presence of in 46 cut of 50 (92%) of the patients tested. In addition, five of the patients, who lacked antibodies to HTLV-I/II structural proteins, were found to be seropositive for tax. It thus seems reasonable to conclude that MF/Sezary syndrome is an HTLV -associated disease and that lack of an immune response does not preclude infection with this type of virus.

L11 ANSWER 8 OF 9 MEDLINE

WEDLINE 95127300 ACCESSION NUMBER:

Cutaneous disease resembling mycosis DOCUMENT NUMBER: TITLE:

fungoides in HIV-infected patients whose skin and blood cells also harbor proviral HTLV type I.

Zucker-Franklin D; Pancake B A;

AUTHOR:

New York University Medical Center, New York 10016.. CORPORATE SOURCE:

DK12274 (NIDDK) CONTRACT NUMBER:

AIDS RESEARCH AND HUMAN RETROVIRUSES, (1994 Sep) 10 (9) SOURCE:

1173-7. Journal code: ART. ISSN: 0889-2229.

United States

Journal; Article; (JOURNAL ARTICLE) PUB. COUNTRY:

English

LANG!JAGE: Priority Journals FILE SEGMENT:

Two homosexual HIV-infected patients with lymphocyte counts of < 50 ENTRY MONTH:

presented with intense pruritis, hyperpigmentation, and skin lesions clinically suggestive of the cutaneous T cell lymphoma, mycosis fungoides. On light microscopy, the skin biopsies were difficult

to interpret because of the sparseness of the lymphocytic infiltrates. However, electron microscopy revealed typical Sezary cells in the peripheral blood and skin. Cultures of blood mononuclear cells of one of the patients generated HTLV-I-like particles. Although both

patients lacked antibodies to HTLV, their blood and skin

specimens proved to harbor tax and pol HTLV-I

proviral sequences as shown by the polymerase chain reaction and Southern blot analysis. Dual infection with HIV and HTLV should be considered in the diagnostic work-up of patients at risk, even in the absence of demonstrable antibodies. Dual infections could result in clinical manifestations and evolution of disease not

anticipated in patients who harbor only one of these retroviruses.

L11 ANSWEF 9 OF 9 MEDLINE

MEDLINE 95078109 ACCESSION NUMBER:

The role of human T-cell lymphotropic viruses (HTLV DOCUMENT NUMBER: TITLE:

-I and II) in cutaneous T-cell lymphomas.

Zucker-Franklin D; Pancake B A

Department of Medicine, New York University Medical AUTHOR: COPPORATE SOURCE:

Center,

NY 10016..

RO1-DK-12274 (NIDDK) CONTRACT NUMBER:

SEMINARS IN DEPMATOLOGY, (1994 Sep) 13 (3) 160-5. SOUPCE:

Journal code: AVV. ISSN: 0278-145X.

United States PUB. COUNTRY:

Journal; Article; (JOURNAL ARTICLE)

English LANGUAGE:

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199503

Although an association between the human T cell lymphotropic viruses (HTLV-I and II) and cutaneous T cell lymphoma (CTCL) has long been suspected, only a minor fraction of patients with this disease have antibodies to the viral structural proteins. However, the consistent finding of HTLV-like particles in cultures of peripheral blood mononuclear cells (PBMC) from such patients has prompted a continued effort to find evidence linking the virus to this disease. Capitalizing

on the increased sensitivity afforded by combining PCR amplification with detection by Southern blot hybridization, it became possible to

demonstrate HTLV tax and/or pol proviral

sequences in freshly isolated PBMC of most patients with mycosis fungoides. These observations suggest a possible role of the virus in the pathogenesis of CTCL, and may impact on diagnostic and therapeutic measures in the future.

The effects of breastfeeding and presence of antibody to

p4 (tax, protein of human T cell

Typyhotropi: virus Type-1 on mother to child

Hisata K.; Hayashi d.; Moguchi A.; Nakashima K.; Kajiyama transmission. AUTHOR:

W.; Kashiwagi S.; Sawada T.

Department of General Medicine, Kyushu University CORPORATE SOURCE:

Holyital, Funuska, Japan

International Journal of Epidemiology, (1992) 21/5 SOURCE:

1929-994).

ISSN: 0300-0771 CODEN: IJEPBF

United Kingdom COUNTRY: Journal; Article DOCUMENT TYPE: Mibrobiology 004

Pediatrics and Pediatric Surgery FILE SEGMENT: 007

Immunology, Serology and Transplantation 0.16

English LANGUAGE:

We examined the effects of various factors, including duration of SUMMARY LANGUAGE: breastfeeding, the status of mother's anti-p40(tax) and titre of mother's anti-human T cell lymphototropic virus type-I (HTLV-I) or mother to child transmission of HTLV-I in 76 HTLV-I carrier mothers and 175 of their children. The overall prevalence of anti-HTLV-I among children was 16.0%. The prevalence of anti-HTLV-I among children breastfed for over 3 months was significantly higher (27.6%) than that of these breastfel for under 3 months (5.1%; 2=0.012). Of the 78 bottle-fed children, 10 (12.8%) were positive for anti-STLV-I. In the children breastfed for over 3 months,

tr.e

prevalence of anti-HTLV-I among 30 children of anti-p40(tax) positive mothers was 37.3° and that of 21 children of anti-p40(tax) negative mothers was 9.5%, a significant difference (P=0.044). These data suggest that about 13% of bottle-fed children born to carrier mothers are

ir.fected

with HTLV-I by routes other than breast milk, and that the mother's anti-p40(tax) can serve as a marker of infectivity of HTLV-I in the case of breastfeeding for over 3 months.

Demonstration of antibolies to human T-cell lymphotropic wirus-I tax in patients with the outaneous T-cell 97028183 TITLE:

lymshema,

my usis funguises, who are seconegative for antibodies to

the structural proteins of the virus.

Pancake B A; Wassel E H; Zucker-Franklin Department of Medicine, New York University Medical AUTHOP:

CORPORATE SOURCE:

Center,

New York 10016, CSA.

CONTRACT NUMBER:

CA58519 (NCI)

SOURCE:

AIO734 A1073 (1996 Oct 15) 88 (8) 5004-9. Journal code: A3C. ISSN: 0006-4971.

PUB. COUNTRY:

United States Journal: Article: JOURNAL ARTICLE)

LANGUAGE:

FILE SEGMENT:

Abridged Index Medicus Journals; Priority Journals; Cancer

Journals

Although most jatien's with the outaneous T-cell lymphoma, mycosis ENTRY MONTH:

Although most ratter a with the outlandors rottly tymphotas, myousis fungoides (MF', are seronegative for human T-cell lymphotropic virus-I or -II (HTLV-I/II when tested by assays that measure only antibodie; to the viral structural proteins, the majority of such only antibodie;

patients harbo: HTLV-I-related pol and tax provinal

sequences that encode prateins not included in routinely used

serologic tests. Tax mRNA has also been detected in their peripheral

mononuclear cells (EBMC). Therefore, it seemed possible that these patients have anticodies to the tax protein. To investigate this,

enzyme-linked immunosorbent assays (ELI-SAs) and Western blot assays were

set up, using as antigens the full-length HTLV-I tax cloned from the prototypus HTLV-I-infected cell line,

C91PL, and from FEMC of a MF patient, as well as a synthetic peptide made to the carrowy-terminal 20 amino acids of tax-I. Of 60 MF patients whose

PBMC were shown to be positive for tax provinal DNA and mENA, 50

(83%) were shown to have tax antibodies. The antigen derived from the MF patient was most useful in Setecting such antibodies. These results

demonstrate the need for including other ATLV-related antigens in

acdition

to gag and env in serologic tests used to identify HTLV-infected individuals. The findings uncerscore the fact that individuals considered seronegative on the basis of currently used tests can be infected with

HTLV.

LIO ANSWER 2 OF 2 MEDLINE

HEBLINE

AICESSION NUMBER:

DE CUMENT NUMBER: TITLE:

9:104210 The difficulty of detecting HTLV-1 provinal sequences in

EUPLICATE 2

patients with mycosis fungoides.

ACITHOR:

Pancake B A; Zucker-Franklin D

CORPORATE SCURCE:

Department of Medicine, New York University Medical

Center,

New York 10016, USA.

CUNTRACT NUMBER:

SOURCE:

GRURNAL OF ACQUIREL IMPONE DEFICIENCY SYNDROMES AND HUMAN R01-CA-03819 (NO

EETROVIECHOWY, (1996 Des 1) 13 (4) 314-9. Journal wide: B71. ISSN: 1077-9450.

FUB. COUNTRY:

United States

Journal; Article; JOCHWAI ARTICLE

LAN WAGE:

Er.a.ish

FILE SEGMENT:

Priority Cournals

ENTRY MONTH:

1997

ENTRY WEEK:

19970204

Although most patients with sutuneous T well lymphomas, including mycosis fungoides MF) and its loukemic variant, the Sezary syndrome, are seronegative for antibodies to the human T cell lymphotropic viruses (HTLV-I/II), it has recently been shown that > 95° of such patients harbor provinal DNA sequences related to the region of the HTLV geneme that encodes the transregulatory/transforming gene, tax. however, the demonstration of

HILL

sequences, even after amplification by polymerase chain reaction (PCR), has not been universally successful, and some investigators continue to question this observation. In an effort to resolve this controversy, we have compared published methodologies that have been less successful with techniques currently used in this lab ratory. Major differences were

found

in (a) the nature of the cells used (treshly isolated versus cultured peripheral blood nononcolear sells (PMM's] and (b) the methods used to prepare samples for 3C5 whole sell lysates versus **DNA** extracts). PBMS from 1% different MF parients and the healthy daughter of I of the patients were subjected to comparative analyses. While all of

the

PBMC lysates were positive, the DNA extract from only one of these individuals revealed HTLV tax sequences. Studies were also

conducted

comparing cell lysates and DNA extracts of cultured cells derived from tax sequence-positive PBMC from seven different MF patients. The bells from four of the seven were shown to have retained tax

after varying times in culture, when whole-cell lysates were used as targets for PCR amplification and Southern analysis, whereas none of the DNA extracts were positive. It appears that the use of whole-cell lysates insteal if 'DNA extracts and the use of fresh instead of cultured cells greatly enhance the ability to detect HTLV-1 tax sequences in specimens from MF patients.

may be immunosuppressive and is alrest indistinguishable serologically from HTLV-I. As with human immunous fittency virus (HIV), infection with those viruser is likely to be lifelong and the disease may have a latent period if many years. Unlike HIV, HTLV -I and/or HTLV-II are not likely to be transmitted from mother to child prenatally, and usually require breast-feeding for vertical transmission. It is likely that HTLV-I and/or HTLV-II has been prevalent in IDVs for far longer than the HIV epidemic. HTLV-I and/or HTLV-II are relevant to the AIDS epidemic in that they may reset in as biologic markers of behavioral risk status for HIV intertion in HIS or their sexual partners, and they may accelerate the poince of HIV intertion in the persons coinfected with HTLV-I and or HIV-II are HIV. Toiried in will be more likely as the HIV exidence of HIV intertion in San Francisco County or Contra Costa County during 1990 were found to have an HTLV-II prevalence of 21% (n = 24). Important issues in counseling infected methadone patients are described.

6101712 Mother-to-child transmission of human T-lymphotropic virus TITLE: type II. Vim Dyke R B; Heneine M; Perrin M E; Rudolph D; Starszak AUTHOR: Ε; W ods T; Switzer W M; Kaplan J E Department of Pediatrics, Tulane University School of CORPORATE SOURCE: Medicine, New Orleans, Louisiana. tiso-coue: 34 19 CONTRACT NUMBER: COURNAL OF PEDEATRICS, F1995 Dec) 127 (6, 924-8. SOURCE: Cournal code: JLZ. ISSN: 0022-3476. PUB. COUNTRY: United States Journal; Article; JOURNAL ARTICLE) Erglish LANGUAGE: Adridged Index Madicus Fournals; Priority Journals; Cancer FILE SEGMENT: drurnals 1.961 ENTRY MONTH: OBJECTIVE: To determine the frequency of nother-to-chird transmission of human T-lymphotropic virus type II (HTEV-II) and to explore its association with breast-feeding. DESIGN: Prospective study of children born to a control of HTLV-II-infected pregnant women and a cross-sectional study of older siblings of these children. METHODS: Maternal sera were screened with an HTLV-I enzyme immuncassay that detects antibody to both HTLV-I and HTLV-II. Confirmatory serologic testing and viral typing were performed by Western bl.t, radicamanoprecipitation assay, enzyme immunoassay with HTLV type-specific proteins, and polymerase chain reaction (PCE) analysis of DNA from peripheral blood minonuclear cells. The presence of ETLV was evaluated in children by serial serologic and PCR testing. Molecular analysis of ECk products from infected mother-child pairs was performed by neams of restriction fragment length polymorphism of HTLV-II long-terminal repeated sequences. RESULTS: Twenty-mine HTLV-II-infected woman were identified, and these 29 women had 30 pregnancies during the study. Of ablitve infants born to infected women, 19 were examined and none was infected with HTLV-II. Sixteen older children less than 10 years of age who were born previously to the infected women were als examined; two were infected with HTLV-II. One infected child was orealt jed for 2 months and the second was not breast fed. The viral patterns of restriction fragment length polynorphism in tł.e two infected children were distinct, but the viral pattern in each child was identical to that of ner mother's virus, suggesting mother-to-child transmission. Overall, among examined children, 1 of 7 breast-fed children (14%; 95% confidence interval: 0, 40) and 1 of 28 children who were not breast fed (3.6%;~95%) and note interval: 0, 10) were infected with HTLV-II. CONCLUSION: Macher-to-child transmission of HTLV-II occurs both with and without breast-feeding and an rates similar to those of HTLV-I. We believe that this is the first

demonstration of acther-to-child transmission of HTLV-II in the absence

breast-feeding.

o:

The difficulty of leteraing HTLV-1 provinal sequences in parients with myronis tundoides.

Pancake B A; Zucker-Franklin D AUTHOR:

Department of Medicine, New York University Medical CORPORATE SOURCE:

Certer,

New York 10018, USA. FO1-CA-58!19 (NYI)

CONTRACT NUMBER:

SOURCE:

COURNAL OF ACQUIRED INSULE DEFICIENCY SYNDHOMES AND HUMAN

FEIRCVIROLOGY, +1996 Data 1) 13 (4) 314-9. Signal code: B7J. 1881: 1077-9450.

PUB. COUNTRY:

United States Cournal; Article; COURNAL ARTICLE)

English LANGUAGE:

Priority Cournals FILE SEGMENT:

199702 ENTRY MONTH: 19970204 ENTRY WEEK:

Although most patients with outsneeds I cell lymphomas, including mycosis fungoides (MF) and its leukemic variant, the Sezary syndrome, are seronegative for antibodies to the human T dell lymphotropic viruses (

HTLV-I/II:, it has recently been shown that > 35% of such patients harbor provinal DNA sequences related to the

region of the HTMV genome that encodes the

transregulatory/transforming gene, tax. However, the demonstration of

HTLLT

sequences, even after amplification by polymerase chain reaction (PCR), has not been universally successful, and some investigators continue to question this observation. In an effort to resolve this controversy, we have compared published methodologies that have been less successful with techniques currently used in this laboratory. Major differences were

found

in (a) the nature of the cells used [freshly isolated versus cultured peripheral blood nononcolear cells (PBMC)] and (b) the methods used to prepare sample: for PCF whole bell lysates wersu: DNA extracts). PBMC from 10 different NF patients and the healthy daughter of I of the patients were subjected to comparative analyses. While all of

PBMC lysates were positive, the DNA extract from inly one of these individuals revealed HTLV tax sequences. Studies were also conducted

comparing cell lysates and DNA extracts of cultured cells derived from tax sequence-positive FBMC from sever different MF patients. The cells from four of the seven were shown to have retained tax sequences

after varying times in bulture, when whole-cell lysates were used as targets for PCR amplification and Southern analysis, whereas none of the DNA extracts were positive. It appears that the use of whole-cell lysates instead of DNA extracts and the use of fresh instead of cultured cells greatly enhance the ability to detect HTLV-1 tax sequences in specimens from MF

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DUPLICATE 8
LIT ANSWER 12 OF 13 VEILINE ACCESSION NUMBER: 9810177
                                       MEDITIE
ACCESSION NUMBER:
                        A serp-epidemiological study on mather-to-child
DOC MENT NUMBER:
                        Kyushi, Japan.
Cki T; Yoshinaga M; Otsuka H; Miyita K; Soneda S; Nagata Y
                        transmission of HTLV-I in southern
TITLE:
                       Department of Obstatrics and Gynecology, Faculty of
                        Medicine, Kacoshima University, Pagan.
Medicine, Kacoshima University, Pagan.
ASIA-DCEANIA JOURNAL OF ORSTETRIES AND GYNAECOLOGY, (1992)
 AUTHOF:
 CORPORATE SOURCE:
                         Dec) 19 (4. 371-7.
Dec) 19 (4. 371-7.
Journal Scde: 9DI. ISSN: 0389-2308.
 SOURCE:
                         Japan Journal; Article; (COURNAL ARTICLE)
  PUB. COUNTRY:
                         English
  LANGUAGE:
        In vertical transmission of HTLV-I the duration of
  ENTRY MONTH:
        breast-feeding (eems t) be an important risk factor. In
        this study, we made prospective and retrospective surveys on the rate of
        vertical transmission of HTLV-I in infants and their
        siblings born to HTLV-I serconsitive mothers. The
        results obtained were as follows. 1) in the prospective study, 885 of
         seropositive, and the seropositive rate was 5.4%. The seroponversion
   the.
         of short-term < 7 months; and long-term (> ir = 7 months) breast
-feeders were 3.8% (1/26 cases) and 25.0% (1/4 cases)
   rates
         respectively, and the rate of bottle-feeders was 5.6 (10/177 cases).
         Short-term breast-feeding tended to yield a lower
         seroconversion rate of infants. In addition, the seroconversion rate of
          short-term breast-feeders was nearly equal to that of
          bottle-feeders: 3.3% vs. 5.6%. 2) In the retrospective study, the
          sericonversion rates of short-term and long-term breast-
          feeders in their siblings were 4.5° (3/67 cases) and 14.0% (19/136 cases) respectively. There was a significant difference between the 2 groups (5.0.0)
          groups (p \cdot (0.01). Thus, the results of our retrospective and prospective
          studies suggest that short-term breast-feeding might
          lessen the risk of breast-milk-porne transmission of HTLV-
           I from carrier mothers to their children.
                                                                        OUPLICATE 9
     L11 ANSWER 13 OF 13 MEDLINE
                                             MEDLINE
     ACCESSION NUMBER: 92113892
                             Human T-cell lymphotrophic virus in California's injection
                             92113802
     DECEMENT NUMBER:
                             Trachtenberg A I; Gaudino J A; Hanson C V
      TITLE:
      CORPORATE SOURCE: Bureau of Drug Abuse Services, Santa Clara County Public
                             Health Department, San Jose, California.
                              JOURNAL OF PSYCHOACTIVE DRUGS, (1991 Apr-Jun) 23 (2)
      SOURCE:
                              Journal code: JLE. ISSN: 0279-1072.
                              Chited States
                              Journal; Article; WOURNAL ARTICLE
       PUB. COUNTRY:
                              Frglish
                              Priority Journals
       LANGUAGE:
       FILE SEGMENT:
            Human T-tell lymphotrophic virus I (HTLV-I) and human
             Human 1-jeil lymphotiophic virus (HTLV-I) and same that are highly prevalent in injection using users (IBUs). The bulk of that are highly prevalent in injection using users (IBUs).
       ENTRY MONTH:
              infection in this group probably occurs with HTLM-II, with a lower
              known to cause acult I-dell leakerta/lymphoma and tropical spastic paraparesis. HTLV-II has not been probed to cause any human pathology,
        but
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13 EMBASE COFYRIGHT 2000 ML EVIER CC. P.V.

ACCESSION NUMBER: 99-29535+ EMPASE

1093295353 DOCUMENT NUMBER:

Family study of women showing development of antibody to TITLE:

human T-cell leakends virus I and assessment of the risk

OI

vertical transmission of the virus to their children. And Y.; Tanigawa T.; Ekuni Y.; Ichijo M.; Tohyama T. Dept. Obstetrics and Synetology, Nara Medical University, AUTHOR:

CORPORATE SOURCE:

Shijosho 840, Mashihara, Mara 834, Japan Journal of Infection, (1993) 27/2 (151-155). SOURCE:

ISSN: (165-4453 CODEN: JINFEG

COUNTRY: United Kingdom DOCUMENT TYPE: Journal; Article () ≤ 4 Microbiology FILE SEGMENT:

Pediatric and Pediatric Surgery 00.7

0.17Public Health, Social Medicine and Epidemiology

0.16Immunology, Serology and Transplantation

LANGUAGE: English English SUMMARY LANGUAGE:

When pregnant women were tested for antibody to human T-cell leukemia virus-1, some were found to be positive although they had been negative during the previous pregnancy. In these women, HTLV-I infection was found from pedigree studies to have been acquired from their mothers rather than from their husbands. Furthermore, some of them had apparently remained HTLV-I antihody-negative for long periods after infection. When the breast-fed children of these women, in whom HTLV-I was adjuired from their mothers but who were in an HTLV-I antiboly-negative state, were also examined for evidence or HTLV-I infection,

L11 ANSWER 11 OF 13 MEDLINE

DUPLICATE 7

ACCESSION NUMBER: 93125990 MEDITNE

93125990 DOCUMENT NUMBER:

none was found.

TITLE: [Vertical transmission of HTLV-I]. Transmission verticale de l'HTLV-1.

Denis F; Verdier M; Bonis J ATTHOR:

Departement de Basteriologie-Virologie, CHU Dupuytren, CORPORATE SOURCE:

Limoges, France...

PATHOLOGIE BIOLOGIE, (1992 Sep) 40 (7) 714-9. Ref: 29 SOURCE:

Journal code: OSC. ISSN: 3369-8114.

PUB. COUNTRY: France

Journal; Article; COURNAL ARTICLE)

General Review; [REVIEW]

(REVIEW LITERATURE)

Frenci LAN-JUAGE:

FILE SEGMENT: Priority Cournals

199:04 ENTRY MONTH:

Vertical transmission of the hurar I-ber leakemia type 1 (HTLV-1) from seropisitive mothers to their cofquing has been extensively studied. Transmission occurs mainly through preastfeeding. Prevention relies on screening pregnant women (and wat-nurses for HTLV-1 antibodies and advising seropositive women to retrain breast feeding. Recently, aptigen date tich or genome detection (using PCR) studies on lymphopytes from hechates born to ETLV-1 positive mothers

have established that openatal certical transmission does occur, although in only a small proportion of cases (4.5 to $7\,\mathrm{e}$). Studies on the HTLV-1

ar.d

improved understanding of its mides of transmission may provide new